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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/039,237	12/31/2001	Tameka Spence	KCC 4782 (K.C. No. 17,029	7293
321	7590 02/06/2004		EXAM	INER
SENNIGER POWERS LEAVITT AND ROEDEL ONE METROPOLITAN SQUARE			HALPERN, MARK	
16TH FLOOR		ART UNIT	PAPER NUMBER	
ST LOUIS, 1	MO 63102		1731	
			DATE MAILED: 02/06/2004	1

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
055	10/039,237	SPENCE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Mark Halpern	1731				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the o	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	86(a). In no event, however, may a reply be till within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	mely filed ys will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 06 No	ovember 2003.					
2a) This action is FINAL . 2b) ☐ This	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1,3-7,9-20 and 23-25</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1,3-7,9-20 and 23-25</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	relection requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	e Action or form PTO-152.				
Priority under 35 U.S.C. §§ 119 and 120						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list since a specific reference was included in the firs 37 CFR 1.78. a) The translation of the foreign language pro 14) Acknowledgment is made of a claim for domestic	s have been received. s have been received in Applicatity documents have been received (PCT Rule 17.2(a)). of the certified copies not received priority under 35-U.S.C. § 119(at sentence of the specification has been received.	ion No ed in this National Stage ed. e) (to a provisional application) r in an Application Data Sheet.				
reference was included in the first sentence of the						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 1		v (PTO-413) Paper No(s) Patent Application (PTO-152)				

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DETAILED ACTION

1) Acknowledgement is made of Response received 11/6/2003.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2) Claims 1, 3-4, 7, 9-14, 17-20, are rejected under 35 U.S.C. 103(a) as being unpatentable over Taylor (2,935,437) in view of Sisson (3,303,576).

Claims 1, 3-4, 12-14: Taylor discloses a method wherein paper stock pulp is deposited over a wire of Fourdrinier machine to form a paper web. The formed web is then dewatered and dried (Taylor, col. 2, lines 15-20, and col. 4, lines 54-59). Sodium bicarbonate is added to the furnish for pH control prior to depositing of the stock onto the forming wire. The pH range is from 4 to about 9.2 (Taylor, col. 2, lines 20-55). Taylor discloses that the formed web is treated according to conventional procedure, i.e. it is dried (Taylor, col. 4, lines 55-60), but fails to disclose that the web is dried by passing heated air through said web. Sisson discloses process of drying of paper web 11 carried on a Fourdrinier wire 12 and then on fabric carrier 16 into dryer where air the web is dried by passing air through said web (Sisson, col. 3, line 4 to col. 4, line 40, and Figure 1). It would have been obvious, to one skilled in the art at the time the invention

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was made, to combine the teachings of Taylor and Sisson, because such a combination would provide for improved drying of the web of Taylor as disclosed by Sisson (col. 1, lines 54-72).

Claims 7, 9-10, 17-19: the temperature of heated air is disclosed to be as high as 700 °F, or 371 °C (Sisson, col. 2, lines 1-5).

Claim 11: the paper stock may be made of broke, cuttings, scraps of paper (col. 2, lines 17-26) and rag fiber (col. 7, line 65).

Claim 20: the paper stock may be made of broke, cuttings, scraps of paper (col. 2, lines 17-26) and rag fiber (col. 7, line 65).

an aqueous suspension of 1.5 liter of water containing 20 grams of paper (Example 1, col. 5-6, Table 1, sub-line (b), and Example 7, col. 7, line 58 to col. 8, line 3). The Espy percentage of sodium bicarbonate in an aqueous suspension calculates to 18 %. It would have been obvious, to one skilled in the art at the time the invention was made, to combine the teachings of Taylor as disclosed by Espy (Abstract).

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4) Claims 1, 3-7, 9-20, 23-25, are rejected under 35 U.S.C. 103(a) as being unpatentable over Espy (5,6744,358) in view of Sisson (3,303,576).

Claims 1, 5-6, 12, 15-16, 23-25: Espy discloses a process of repulping paper wherein 3.60 grams of sodium bicarbonate is introduced into an aqueous suspension of 1.5 liter of water containing 20 grams of paper (Example 1, col. 5-6, Table 1, sub-line (b), and Example 7, col. 7, line 58 to col. 8, line 3). The Espy percentage of sodium bicarbonate in an aqueous suspension calculates to 18 %. The aqueous suspension is then formed into web sheets following standard procedures (col. 4, lines 38-68). Espy discloses that the formed web is dried, but fails to disclose that the web is dried by passing heated air through said web. Sisson discloses process of drying of paper web 11 carried on a Fourdrinier wire 12 and then on fabric carrier 16 into dryer where air the web is dried by passing air through said web (Sisson, col. 3, line 4 to col. 4, line 40, and Figure 1). It would have been obvious, to one skilled in the art at the time the invention was made, to combine the teachings of Espy and Sisson, because such a combination would provide for improved drying of the web of Espy as disclosed by Sisson (col. 1, lines 54-72).

Claims 3-4, 13-14: the pH of the aqueous suspension after sodium bicarbonate addition ranges from 7 to 12 (col. 2, lines 45-49).

Claims 7, 9-10, 17-19: the temperature of heated air is disclosed to be as high as 700 °F, or 371 °C (Sisson, col. 2, lines 1-5).

Claims 11, 20: Espy discloses paper and paperboard waste materials (broke), which are secondary cellulosic fibers (col. 1, lines 23-24).

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Response to Amendment

- 5) Claims 1, 3-4, 7, 9-14, 17-20, rejection under 35 U.S.C. 103(a) as being unpatentable over Taylor (2,935,437) in view of Shannon (6,488,812), is withdrawn in view of further search of art in prior art.
- 6) Claims 5-6, 15-16, 23-25, rejection under 35 U.S.C. 103(a) as being unpatentable over Taylor in view of Shannon, and further in view of Espy (5,674,358), is withdrawn in view of further search of art in prior art.

Conclusion

7) Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark Halpern whose telephone number is 571-272-1190. The examiner can normally be reached on Mon-Fri, (9:00-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Griffin can be reached on 571-272-1190. The fax phone numbers for the organization where this application or proceeding is assigned is 703-872-9309.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0651.

Mark Halpern \\ Patent Examiner Art Unit 1731